Function Search

Introduction

Home > Find Functions > Function Search

Function Search

Function Search is a way to search, browse and select functions in IMG. It can be accessed via the second-level menu of **Find Functions**, as shown in Figure 1.

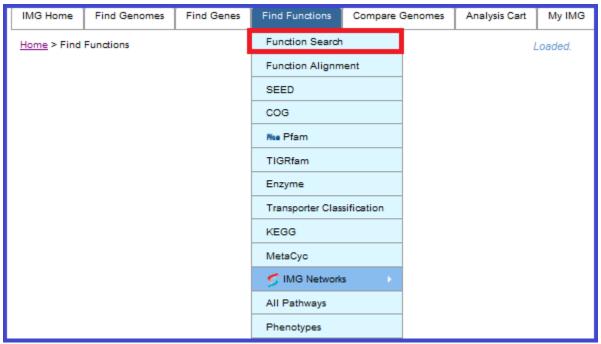


Figure 1: Access Function Search.

Keyword Search

The displayed page of **Function Search**, as shown in Figure 2, searches functions in selected genomes by keyword.

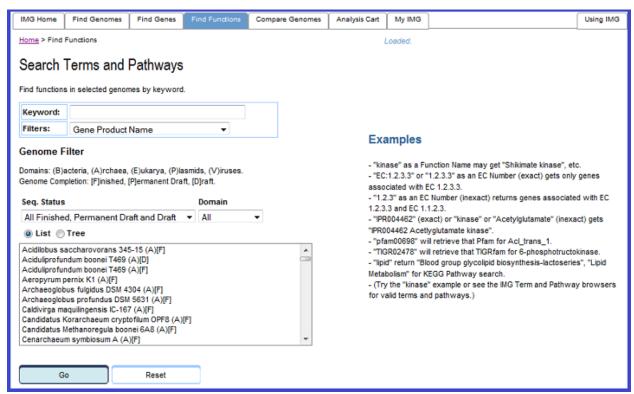


Figure 2: Function Search.

A total of 20 search filters are available for selection, as shown in Figure 3: Function Search Filters.. The default filter is "Gene Product Name". User can also select filters such as:

Gene Product Name

SEED Product Name/Subsystem

SwissProt Product Name

GO (list)

COG (list)

Pfam (list)

TIGRfam (list)

InterPro (list)

EC Number (list)

EC Number or enzyme name (inexact)

Transporter Classification (list)

KEGG Pathway Enzymes

KEGG Orthology ID (list)

KEGG Orthology Name

KEGG Orthology Definition

MetaCyc (list)

IMG Term and Synonyms

IMG Pathways

IMG Parts List

All function names*

Among them, "Transporter Classification (list)" and "MetaCyc (list)" are the newly added filters. They are included into the "All function names*" search too.

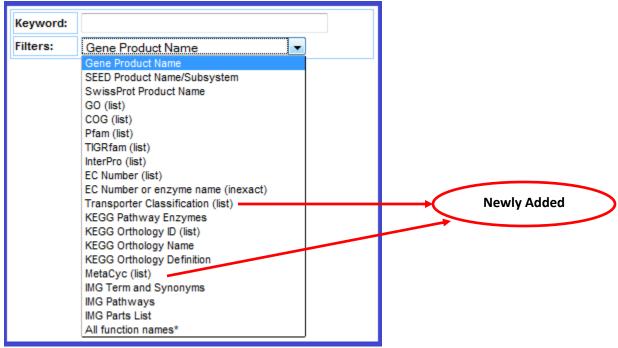


Figure 3: Function Search Filters.

Genome Filter

The Genome Filter is provided to limit the scope of search. The search is conducted on the genomes that user has saved through the **Genome Browser**. If user saves nothing, by default, it's all genomes in IMG database. However, user can override the selection via the **Genome Filter** provided in the page.

For more information about **Genome Filter**, go to "Home > User Guide > Site Map".

Search Specifications

All searches are case-insensitive. The "list" search has to be separated by ",".

User can use a percent sign (%) as a wildcard in the middle of a keyword. The results will include any genes with zero or more additional characters at that position. For example, "hydro%ase" in "Gene Product Name" will get results with "hydrolase" and "hydrogenase", etc. If user wants only a single character of the keyword to be variable, type an underscore (_) in that position. Searching for "hydro_ase" will get results with "hydrolase," not "hydrogenase."